

Amendments to the Claims:

Please amend the claims as follows:

Claim 1 (currently amended): A method for the wet chemical preparation of a materials library comprising a large number of solids from reaction mixtures having different compositions, characterized in that the reaction mixtures are introduced, in a spatially separated way, into microreaction chambers in removable reaction plates in a reactor and reacted in the form of solutions or suspensions in the microreaction chambers at temperatures of up to 1000 °C and internal pressures of up to 1000 bar and wherein the solids produced in the reactions are being deposited in a spatially separated way on a removable reactor bottom plate.

Claim 2 (currently amended): The method according to claim 1, wherein the reaction mixtures are introduced into isolated cavities that are part of the reaction plate ~~in the form of isolated cavities as bores and that are realized as borings~~.

C1 Claim 3 (currently amended): The method according to claim 1, wherein the solids ~~deposited on~~ produced in the reactor bottom plate are subsequently ~~freed~~ separated from the supernatant liquid phase and the remaining solid phase is calcined.

Claim 4 (previously amended): The method according to claim 1, wherein the reactor bottom plate, ~~which consists of~~ comprises a material that scatters X-rays elastically, ~~is identical with the library substrate on which the solids are adhesively deposited and constitutes the material library together with the deposited calcined solids~~.

Claim 5 (withdrawn)

Claim 6 (previously amended): The method according to claim 1, wherein the solids of the materials library are subsequently characterized by non-destructive analytical methods.

Claim 7 (currently amended): The method according to claim 4, wherein the reactor bottom plate consists of a single-crystal slice, wherein the crystal is selected from the group consisting preferably of Si, Cu, quartz, rutile, anatase, zirconia, Ge, Al, sapphire, Fe, Ti, Zr, Co, Ni and ~~or~~ Sn.